

1. *Introduction*
 2. *Background*
 3. *Methodology*
 4. *Results*
 5. *Discussion*
 6. *Conclusion*
 7. *References*
 8. *Appendix*
 9. *Index*
 10. *Table of Contents*
 11. *Abstract*
 12. *Summary*
 13. *Key Words*
 14. *Keywords*
 15. *Subject Headings*
 16. *Subject Headings*
 17. *Subject Headings*
 18. *Subject Headings*
 19. *Subject Headings*
 20. *Subject Headings*
 21. *Subject Headings*
 22. *Subject Headings*
 23. *Subject Headings*
 24. *Subject Headings*
 25. *Subject Headings*
 26. *Subject Headings*
 27. *Subject Headings*
 28. *Subject Headings*
 29. *Subject Headings*
 30. *Subject Headings*
 31. *Subject Headings*
 32. *Subject Headings*
 33. *Subject Headings*
 34. *Subject Headings*
 35. *Subject Headings*
 36. *Subject Headings*
 37. *Subject Headings*
 38. *Subject Headings*
 39. *Subject Headings*
 40. *Subject Headings*
 41. *Subject Headings*
 42. *Subject Headings*
 43. *Subject Headings*
 44. *Subject Headings*
 45. *Subject Headings*
 46. *Subject Headings*
 47. *Subject Headings*
 48. *Subject Headings*
 49. *Subject Headings*
 50. *Subject Headings*
 51. *Subject Headings*
 52. *Subject Headings*
 53. *Subject Headings*
 54. *Subject Headings*
 55. *Subject Headings*
 56. *Subject Headings*
 57. *Subject Headings*
 58. *Subject Headings*
 59. *Subject Headings*
 60. *Subject Headings*
 61. *Subject Headings*
 62. *Subject Headings*
 63. *Subject Headings*
 64. *Subject Headings*
 65. *Subject Headings*
 66. *Subject Headings*
 67. *Subject Headings*
 68. *Subject Headings*
 69. *Subject Headings*
 70. *Subject Headings*
 71. *Subject Headings*
 72. *Subject Headings*
 73. *Subject Headings*
 74. *Subject Headings*
 75. *Subject Headings*
 76. *Subject Headings*
 77. *Subject Headings*
 78. *Subject Headings*
 79. *Subject Headings*
 80. *Subject Headings*
 81. *Subject Headings*
 82. *Subject Headings*
 83. *Subject Headings*
 84. *Subject Headings*
 85. *Subject Headings*
 86. *Subject Headings*
 87. *Subject Headings*
 88. *Subject Headings*
 89. *Subject Headings*
 90. *Subject Headings*
 91. *Subject Headings*
 92. *Subject Headings*
 93. *Subject Headings*
 94. *Subject Headings*
 95. *Subject Headings*
 96. *Subject Headings*
 97. *Subject Headings*
 98. *Subject Headings*
 99. *Subject Headings*
 100. *Subject Headings*

1. A radio transceiver, comprising:
a receiver, for receiving radio signals;
a quality estimator, for estimating a first measure of quality of received radio signals; and
a speed estimator, for obtaining a measure of relative velocity of the transceiver,
wherein the measure of relative velocity is used as an input to the quality estimator.
2. A radio transceiver as claimed in claim 1, wherein the estimated first measure of quality is the signal-to-interference ratio.
3. A radio transceiver as claimed in claim 2, further comprising:
a comparison circuit, for comparing the estimated signal-to-interference ratio with a threshold value thereof; and
a control circuit, for transmitting a power control signal to a further transceiver, based on the result of said comparison.
4. A radio transceiver as claimed in claim 3, wherein the signal-to-interference ratio threshold value is set to achieve a target value of a second measure of quality.
5. A radio transceiver as claimed in claim 4, wherein the second measure of quality is a bit error rate.
6. A radio transceiver as claimed in claim 4, wherein the second measure of quality is a frame error rate.
7. A radio transceiver as claimed in claim 1, wherein the quality estimator uses an estimation algorithm having a response speed, and the response speed of the estimation algorithm is controlled in response to the measure of velocity of the transceiver.

9. A mobile station, including a radio transceiver as claimed in ^{claim 1} ~~one of claims 1 to 8~~.

10. A base station, including a radio transceiver as claimed in ^{claim 1} ~~one of claims 1 to 8~~.

11. A method of estimating quality of received radio signals in a transceiver, comprising:

obtaining a measure of relative velocity of the transceiver; and

estimating the quality using an estimation algorithm, including using the measure of relative velocity as an input to the estimation algorithm.

12. A method as claimed in claim 11, wherein the estimated measure of quality is the signal-to-interference ratio.

13. A method as claimed in claim 11, wherein the quality estimation algorithm has a response speed, and the response speed of the estimation algorithm is controlled in response to the measure of relative velocity of the transceiver.

14. A method as claimed in claim 13, wherein the response speed of the estimation algorithm is controlled such that a first higher response speed is used in the event of a low measure of velocity of the transceiver, and a second lower response speed is used in the event of a high measure of velocity of the transceiver.

15. A radio receiver, comprising:

a speed estimator, for obtaining a measure of

Bl
Cnl
a
i
a

1. **Introduction**

relative velocity of the receiver, and

a quality estimator, for carrying out an algorithm to obtain a measure of quality of received signals, the being supplied as an input to the quality estimator.

5 16. A radio receiver as claimed in claim 15,
 wherein the algorithm is selected on the basis of the
 measure of relative velocity.

17. A method of estimating quality of radio signals received in a receiver, comprising:

10 obtaining a measure of relative velocity of the
transceiver; and

estimating the quality using an estimation algorithm, including using the measure of relative velocity as an input.

15 18. A method as claimed in claim 17, comprising
using the measure of relative velocity to select an
appropriate estimation algorithm.

Bl
Canc!

[illegible]